

PTO/SB/08a/b (08-03)
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Substitute for form 1449A/B/PTO		Complete if Known			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	09/944,328		
		Filing Date	August 31, 2001		
		First Named Inventor	Brig B. Elliott		
		An Unit	2131		
		Examiner Name	J.E. Jackson		
Sheet	1	of	3	Attorney Docket Number	BBNT-P01-134

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
9/2	AA*	US-4,445,116		04-24-1984	Grow	
	AB*	US-4,649,233		03-10-1987	Bass et al.	
	AC*	US-5,469,432		11-21-1995	Gat	
	AD*	US-5,502,766		03-26-1996	Boebert et al	
	AE*	US-5,535,195		07-09-1996	Lee	
	AF*	US-5,710,773		01/1998	Shiga, Tomohisa	
	AG*	US-5,768,391		06-16-1998	Ichikawa	
	AH*	US-5,805,801		09/1998	Holloway et al	
	AI*	US-5,911,018		06-08-1999	Bischel et al.	
	AJ*	US-6,028,935		02-22-2000	Rarity et al.	
	AK*	US-6,097,696-A		08/2000	Doverspike, Robert D.	
	AL*	US-6,122,252		09/2000	Aimoto et al	
	AM*	US-6,233,075		05/2001	Chang et al	
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	AO*	US-6,463,060		10/2002	Sato et al	
	AP*	US-6,507,012-B1		01/2003	Medard et al	
	AQ*	US-6,563,796		05/2003	Saito, Hiroshi	
	AR*	US-6,678,379-B1		01/2004	Mayers et al	
	AS*	US-6,684,335		01/2004	Epstein et al.	
	AT*	US-5,311,572		05/1994	Friedes et al.	
9/2	AU*	US-5,602,916		02/1997	Grube et al.	
	AV*	US-6,341,127		01/2002	Katsube et al.	
	AW*	US-6,529,498		03/2003	Cheng, Dean	
	AX*	US-6,538,990		03/2003	Prorock, Thomas Joseph	
	AY*	US-6,560,707		05/2003	Curtis, et al.	
	AZ*	US-6,654,346		11/2003	Mahalingaiah et al.	
	AA1*	US-6,678,379		01/2004	Mayers et al.	
	AB1*	US-6,754,214		06/2004	Mahalingaiah, Rupaka	
	AC1*	US-6,836,463		12/2004	Garcia-Luna-Aceves et al.	
	AD1*	US-5,764,765		06/1998	Phoenix et al.	

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NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city		T ²
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		Art Unit	2131		
		Examiner Name	J.E. Jackson		
Sheet	2	of	3	Attorney Docket Number	BBNT-P01-134

		and/or country where published.	
CA		"Quantum key distribution: Real-time compensation of interferometer phase drift," NTNU Department of Physical Electronics, pages 1-45.	
CB		Bennett, C.H., et al., "Experimental Quantum Cryptography," Journal of Cryptography's special issue after Eurocrypt '90, 28 pages (September 1991).	
CC		Bennett, C.H., et al., "Generalized Privacy Amplification," IBM Research, 24 pages (May 31, 1995).	
CD		Brassard, G., et al., "Cryptology Column - 25 Years of Quantum Cryptography," Pragocrypt, pp. 13-24 (July 1996).	
CE		Brassard, G., et al., "Secret-Key Reconciliation by Public Discussion," Department IRO, Universite de Montreal, 14 pages (1994).	
CF		Ekert, A.K., "Quantum Cryptography Based on Bell's Theorem," Physical Review Letters, 67(6):661-663 (1991).	
CG		Elliott, B.B., et al., "Path-length control in a interferometric QKD link," Proc. of SPIE, Vol. #5101, 11 pages (April 21, 2003).	
CH		Elliott, C., "Building the quantum network," New J. Phys., 4:46 (2002).	
CI		Franson, J.D., "Bell Inequality for Position and Time," Physical Review Letters, 62(19):2205-2208 (1989).	
CJ		Gisin, N., et al., "Quantum cryptography and long distance Bell experiments: How to control decoherence," Geneva, Switzerland, pages 1-7 and 4 pages of drawings (January 15, 1999).	
CK		Gisin, N., et al., "Quantum cryptography," Reviews of Modern Physics, 74:145-184 (2002).	
CL		Jennewein, T., et al., "Quantum Cryptography with Entangled Photons," Physical Review Letters, 84(20):4729-4732 (2000).	
CM		Maurer, U., et al., "Information-Theoretic Key Agreement: From Weak to Strong Secrecy for Free," Computer Science Department, Swiss Federal Institute of Technology, 20 pages (2000).	
CN		Maurer, U.M., "Secret Key Agreement by Public Discussion From Common Information," IEEE Transactions on Information Theory, 39:733-742 (1993).	
CO		Mo, X., et al., "Intrinsic-Stabilization Uni-Directional Quantum Key Distribution Between Beijing and Tianjin," Key Lab of Quantum Information, Department of Electronic Engineering and Information Science, University of Science and Technology of China, Hefei, Anhui.	
CP		Naik, D.S., et al., "Entangled State Quantum Cryptography: Eavesdropping on the Ekert Protocol," Physical Review Letters, 84(20):4733-4736 (2000).	
CQ		Ribordy, G., et al., "Long-distance entanglement-based quantum key distribution," Physical Review A, Volume 63, 012309-1-012309-12 (2001).	
CR		Scarani, V., et al., "Quantum Cryptography Protocols Robust Against Photon Number Splitting Attacks for Weak Lazer Pulse Implementations," Physical Review Letters, 92(5):057901-1 through 057901-4 (February 2004).	
CS		Scarani, V., et al., "Quantum cryptography protocols robust against photon number splitting attacks," ERATO Conference on Quantum Information Science 2003, September 4-6, 2003, Nijimakaikan, Kyoto Japan; 2 pages.	
CT		Schneier, B., "Applied Cryptography," Second Edition, Chapter 10, October 18, 1995, Wiley & Sons Publ., pp. 216-220.	
CU		Slutsky, B., et al., "Defense frontier analysis of quantum cryptographic systems," Applied Optics, 37(14):2869-2878 (1998).	
CV		Slucki, D., et al., "Quantum Key Distribution over 67 km with a plug&play system," New Journal of Physics, 4:1-41.8 (2002).	
CW		Tanzilli, S., et al., "PPLN waveguide for quantum communication," Eur. Phys. J.D., 18:155-160 (2002).	
CX		Tittel, W., et al., "Long-distance Bell-type tests using energy-time entangled photons," Physical Review A, 59(6):4150-4163 (1999).	

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<input checked="" type="checkbox"/>	CY	Degermark, M., et al., "Small Forwarding Tables for Fast Routing Lookups," ACM, pages 3-14 (1997).	
<input type="checkbox"/>	CZ	Estrin, D., et al., "Security Issues in Policy Routing," IEEE, pages 183-193 (1989).	
<input type="checkbox"/>	CA1	Garcia-Luna-Aceves, J.J., et al., "Distributed, Scalable Routing Based on Vectors of Link States," IEEE Journal on Selected Areas in Communications, 13(8):1383-1395 (October 1995).	
<input type="checkbox"/>	CB1	Garcia-Luna-Aceves, J.J., et al., "Scalable Link-State Internet Routing," Network Protocols (October 13-16, 1998).	
<input type="checkbox"/>	CC1	Lakshman, T.V., et al., "High-Speed Policy-based Packet Forwarding Using Efficient Multi-dimensional Range Matching," Proceedings of the ACM SIGCOMM'98 conference on Applications, technologies, architectures and protocols for computer communication, pages 203-214 (1998).	
<input type="checkbox"/>	CD1	Lampson, B., et al., "IP Lookups Using Multiway and Multicolumn Search," IEEE/ACM Transactions on Networking, 7(3):324-334 (June 1999).	
<input type="checkbox"/>	CE1	Ramanathan, R., et al., "Hierarchically-organized, multihop mobile wireless networks for quality-of-service support," Mobile Networks and Applications, 3:101-119 (1998).	
<input type="checkbox"/>	CF1	Tsai, W.T., "An Adaptive Hierarchical Routing Protocol," IEEE Transactions on Computers, 38(8):1059-1075 (August 1989).	
<input type="checkbox"/>	CG1	Waldvogel, M., et al., "Scalable High Speed IP Routing Lookups," ACM, pages 25-36 (1997).	
<input type="checkbox"/>	CH1	Bowers, J.E., "Optical Network and Component Trends," UCSB, NSF Workshop, 51 pages.	
<input type="checkbox"/>	CI1	Honjo, T., et al., "Differential-phase-shift Quantum Key Distribution," NTT Technical Review, 2(12):26-33 (Dec. 2004).	
<input type="checkbox"/>	CJ1	Nambu, Y., et al., "BB84 Quantum Key Distribution System based on Silica-Based Planar Lightwave Circuits," Fundamental and Environmental Research Laboratories and Fiber Optic Devices Division, pages 1-11.	
<input checked="" type="checkbox"/>	CK1	Paniccia, M., "Silicon Integrated Photonics," UCSB, 30 pages, February 2, 2005.	
<input checked="" type="checkbox"/>	CL1	Tomita, A., et al., "Recent Progress in Quantum Key Transmission," NEC J. of Adv. Tech., 2(1):84-91 (Winter 2005).	

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*Applicant's unique citation designation number (optional). *Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	10/26/06
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EXPRESS MAIL NO. EK555899074US

Sheet 1 of 2

INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)			Atty. Docket No. 00-4069		Serial No. Unassigned 09/444328		
			Applicant Brig Barnum Elliott				
			Filing Date Herewith		Group Unassigned		
U.S. PATENT DOCUMENTS							
*Examiner Initial		Document Number	Date	Name	Class	Sub Class	Filing Date If Appropriate
OO	AA	5,243,649	9/7/93	Franson	380	9	
	AB	5,307,410	4/26/94	Bennett	380	21	
	AC	5,414,771	5/9/95	Fawcett, Jr.	380	44	
	AD	5,675,648	10/7/97	Townsend	380	21	
	AE	5,732,139	3/24/98	Lo et al.	380	28	
	AF	5,757,912	5/26/98	Blow	380	21	
	AG	5,764,765	6/9/98	Phoenix et al.	380	21	
	AH	5,768,378	6/16/98	Townsend et al.	380	21	
	AI	5,850,441	12/15/98	Townsend et al.	380	21	
	AJ	5,953,421	9/14/99	Townsend	380	21	
	AK	5,960,131	9/28/99	Fouquet et al.	385	17	
	AL	5,960,133	9/28/99	Tomlinson	385	18	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
OO	BA	DeBashis Basak, Daniel O. Awduche, John Drake and Yakov Redhter, Multi-protocol Lambda Switching: Issues in Combining MPLS Traffic Engineering Control with Optical Cross-connects, IETF Internet Draft Memo, http://www.ietf.org/shadow.html , February 2000, page 1-9.					
	BB	Daniel O. Awduche, Yakov Rekhter, John Drake and Rob Coltun, Multi-protocol Lambda Switching: Combining MPLS Traffic Engineering Control with Optical Crossconnects, IETF Internet Draft Memo, http://www.ietf.org/shadow.html , January 2001, pages 21.					
	BC	Charles H. Bennett and Gilles Brassard, Quantum Cryptography: Public Key Distribution and Coin Tossing, Intl. Conf. On Computers, Systems & Signal Processing, Bangalore, India, Dec. 10-12, 1984, 5 Pages.					
	BD	Donald S. Bethune and William P. Risk, Prototype Autocompensating Quantum Cryptography System Based on Polarization Splitting of Light, Session QC41, DCOMP/CCP99: Quantum Computing and Cryptography, 3/24/99 (4 pages).					
	BE	D.S. Bethune and W.P. Risk, An Autocompensating Fiber-Optic Quantum Cryptography System Based on Polarization Splitting of Light, IEEE Journal of Quantum Electronics, Vol. XX, No. Y, 1999.					
	BF	Graham P. Collins, Quantum Cryptography Defies Eavesdropping, Physics Today, Nov. 1992, page 21-23.					
Examiner <i>Janice Jank</i>					Date Considered 9/29/05		
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INFORMATION DISCLOSURE CITATION
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09/944528

Applicant
Brig Barnum Elliott

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U.S. PATENT DOCUMENTS

*Examiner Initial		Document Number	Date	Name	Class	Sub Class	Filing Date If Appropriate
JO	AM	5,966,224	10/12/99	Hughes et al.	359	112	
	AN	6,005,993	12/21/99	MacDonald	385	16	
	AO	6,130,780	10/10/00	Jaonnopoulos et al.	359	584	
	AP	6,154,586	11/28/00	MacDonald et al.	385	18	
	AQ	5,339,182	8/16/94	Kimble et al.	359	112	
JO	AR	5,911,018	6/8/99	Bischel et al.	385	16	

FOREIGN PATENT DOCUMENTS

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JO	BG	L.Y. Lin, E.L. Goldstein and R.W. Tkach, Free-Space Micromachined Optical Switches for Optical Networking, IEEE Journal of Selected Topics in Quantum Electronics, Vol. 5, No. 1, January/February, 1999.						
	BH	S. Eisenberg and R. Boger, Lucent Technologies names Cherry Murray Physical Sciences Research Vice President, http://www.lucent.com/press/0300/000328.bla.html , March 28, 2000 (2 Pages).						
	BI	Simon J.D. Phoenix, Stephen M. Barnett, Paul D. Townsend and K.J. Blow, Multi-user Quantum Cryptography on Optical Networks, Journal of Modern Optics Letter, Vol. 42, No. 6, 1995, pages 1155-1163.						
	BJ	Laser End-Point Detection System, IBM Technical Disclosure Bulletin, Vol. 28, No. 7, December 1985, Pages 3151-3163.						
	BK	E. Rosen, A. Viswanathan and R. Callon, Multiprotocol Label Switching Architecture, Internet Standards Track Protocol, Internet Official Protocol Standards (STD 1), January 2001, Pages 1-61.						
	BL	P.D. Townsend, J.G. Rarity and P.R. Tapster, Enhanced Single Photon Fringe Visibility in a 10 km-Long Prototype Quantum Cryptography Channel, Electronics Letters, Vol. 29, No. 14, July 8, 1993, pages 1291-1293.						
	BM	P.D. Townsend, Secure Key Distribution System Based on quantum Cryptography, Electronics Letters, Vol. 30, No. 10, May 12, 1994, pages 809-811.						
	BN	P.D. Townsend, J.G. Rarity and P.R. Tapster, Single Photon Interference in 10km Long Optical Fiber Interferometer, Electronics Letters, Vol. 29, No. 7, April 1, 1993, page 634-635.						
JO	BO	James A. Walker, Telecommunications Applications of MEMS, mstnews, March 2000, Page 6-9.						

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